UNITED STATES PATENT OFFICE.

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CONCEALED HINGE.

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This invention relates particularly to a movable in the slots 8 of the other hinge though of course it may have a more general use wherever applicable. Among the member 2 and having its other end with a 60 bjects of the invention are: to provide a headed projection slidable in the slot 7 of 10 closely and render the hinge invisible; and result is that when these leaves 11 and 12 are sections connected by the hinge.

taken on the line 4-4 of Fig. 3.

members 1 and 2 are angular in cross section, as shown more clearly in Fig. 4, and has an upstanding portion 5 or 6 which is usually disposed at the side of one of the leaves to be connected, the base or other portion being secured to the bottom of the leaf. The leaf itself may be cut away or countersunk to accommodate the base or upstanding part of the hinge so that the hinge parts will be flush with the side and end of the leaves. The upstanding parts 5 and 6 are inclined upwardly and outwardly toward their adjacent edges, as shown in Fig. 4, and in these parts are slots 7 and 8.

From the base of the hinge part 2 there is a projection 9 which extends into a corresponding recess 10 in the other hinge part 1, and also extends across the meeting line between the hinge parts and between the leaves to which the hinge parts are attached. The object of this projection 9 is to evenly support the two leaf sections 4 when they are in open position so that they will be flush on top when they are in open position, even though the hinge parts themselves may not be exactly or accurately positioned.

In order to connect the hinged parts 1 and 2 there are two similar levers 11 and 12, receiving the hinge parts. one pivotally connected at one end to the extremity of the upstanding portion 5 and

hinge for connecting table leaf sections, al- member, and the other lever 12 being pivhinge made entirely of metal stampings; to the hinge member 1. These levers 11 and provide a hinge of this kind which may be 12 are curved substantially in the form of a secured to the adjacent ends of two leaves to semi-circle and cross each other at an angle be connected which will make them abut where they have a common pivot 13. The 65 to provide a hinge of this kind in which a in one position, as limited by the slots 7 and projection of one portion of the hinge will 8, the hinge members are spaced apart, as act as a levelling support for the two leaf shown in Fig. 1, and when they are moved ctions connected by the hinge. so that they are at the other ends of the 70 In the accompanying drawing Fig. 1 is a slots 7 and 8, the hinge members 1 and 2 side elevation showing the hinge in folding are closely abutting with the leaf sections 4 or closed position; Fig. 2 is a side elevation in alinement, as shown in Fig. 2. In the showing the hinge in open or extended posi- first position the hinge members project tion: Fig. 3 is a plan view of the hinge in from the ends of the leaf members, and in 75 open position: and Fig. 4 is a sectional view the second position they project below the junction of the leaf members. At no time The hinge proper comprises two members do they engage the abutting ends of the 1 and 2 somewhat similar and adapted to be tops of the leaf sections and when in exsecured by screws 3 to the adjacent edges of tended form, as shown by Fig. 2, the hinges the hinged members or leaves 4. The hinge and the parts thereof are invisible from the tended form, as shown by Fig. 2, the hinges 80 top of the leaf.

These hinge parts are made entirely of stamped sheet metal and are preferably formed with rounded raised portions 14 sur- 85 rounding the screw holes which make countersunk portions for the screw heads. At the bending line between the base and the upstanding portion there is a rounded groove 15 instead of a sharp bend which 90 strengthens the hinge member and prevents cracking or breaking the hinge member in its formation. One of the hinge members is formed with a projection 16 to which the lever 11 is pivoted and the other end of 95 the lever is formed with an offset 17 so that the levers 11 and 12 will be in proper posi-

tion and relation to pass each other. With this construction it is obvious that

table leaf sections or any two members may 100 be connected for a hinging movement of approximately 180° and that when the members are in open position the hinge will be entirely invisible from the top thereof, all of the parts being covered or concealed by 105

being flush with the surfaces, or being inserted in recesses or slots made in the under sides of the leaf sections for the purpose of

I claim:

1. The combination with a pair of sectionhaving headed projections at its other end ally angular hinge members adapted for

110